

PATENT COOPERATION TREATY

118.28.04

From the INTERNATIONAL SEARCHING AUTHORITY

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PCT

To:

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INVITATION TO PAY ADDITIONAL FEES

(PCT Article 17(3)(a) and Rule 40.1)

| | | |
|---|---|---|
| | Date of mailing (day/month/year) | 19/08/2004 |
| Applicant's or agent's file reference RTN-194AWO | PAYMENT DUE | within 45 xxxx days/days from the above date of mailing |
| International application No. PCT/US2004/003231 | International filing date (day/month/year) | 05/02/2004 |
| Applicant RAYTHEON COMPANY | | |

1. This International Searching Authority

- (i) considers that there are 3 (number of) inventions claimed in the international application covered by the claims indicated ~~xxx~~ on the extra sheet:

and it considers that the international application does not comply with the requirements of unity of invention (Rules 13.1, 13.2 and 13.3) for the reasons indicated ~~xxx~~ on the extra sheet:

- (ii) ☒ has carried out a partial international search (see Annex) ☐ will establish the international search report on those parts of the international application which relate to the invention first mentioned in claims Nos.:

1 - 7

- (iii) will establish the international search report on the other parts of the international application only if, and to the extent to which, additional fees are paid

2. The applicant is hereby invited, within the time limit indicated above, to pay the amount indicated below:

EUR 1.550,00 x 2 = EUR 3.100,00
 Fee per additional invention number of additional inventions total amount of additional fees

Or, _____ x _____ = _____

The applicant is informed that, according to Rule 40.2(c), the payment of any additional fee may be made under protest, i.e., a reasoned statement to the effect that the international application complies with the requirement of unity of invention or that the amount of the required additional fee is excessive.

3. ☐ Claim(s) Nos. _____ have been found to be unsearchable under Article 17(2)(b) because of defects under Article 17(2)(a) and therefore have not been included with any invention.

Name and mailing address of the International Searching Authority



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Laura Fernández Gómez

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-7

An impregnation compound product comprising a pre-polymer, a co-reactant curative and a diluent.

2. claims: 8-17

Method for impregnating a fabric.

3. claims: 18-22

Fabric product comprising: resin layer / resin impregnated fabric / resin layer.

The present invention relates to an impregnated fabric. The problem underlying the present application is to provide a composition for the impregnation of a fabric, which is used to provide structures that can withstand high level working loads under extreme environmental conditions and also a method for impregnating this fabric and a product comprising it.

The features of the common concept which could be considered as special technical features in the sense of Rule 13.2 PCT linking all the independent claims and therefore forming a general inventive concept in the sense of Rule 13.1 are: an impregnation composition for a fabric.

However, the search has revealed that this common concept is already known in the light of the following document: US-A-4144027 (cf. claim 1), FR-A-2544322 (cf. claims 1 and 10), US-A-3669920 (cf. abstract, column 9, lines 19-27) or RU-A-2078865 (cf. abstract).

No other features which could play the role of special technical features within the meaning of Rule 13.2 PCT can be identified. Therefore no single inventive concept in the sense of Rule 13.1 underlying a unique invention can be distinguished. Thus, the present application lacks unity of invention.

Three different non-unitary subjects can be distinguished:

I. The composition of independent claim 1 characterised in that it comprises a pre-polymer, a co-reactant curative and a diluent.

Claims 1-7

II. The method of independent claim 8 characterised by the way of impregnating a fabric.

Claims 8-17

III. The fabric product of independent claim 18 characterised in that it comprises a resin impregnated fabric layer with a resin layer on each its surfaces.

Claims 18-22

The partial search report is only drawn up for claims 1-7. The applicant is invited to pay 2 additional fees for the subject of groups II and III identified above.

**Annex to Form PCT/ISA/206
COMMUNICATION RELATING TO THE RESULTS
OF THE PARTIAL INTERNATIONAL SEARCH**

International Application No
PCT/US2004/003231

1. The present communication is an Annex to the invitation to pay additional fees (Form PCT/ISA/206). It shows the results of the international search established on the parts of the international application which relate to the invention first mentioned in claims Nos.:
2. ~~This communication is not the international search report which will be established according to Article 18 and Rule 43.~~
see 'Invitation to pay additional fees'
3. If the applicant does not pay any additional search fees, the information appearing in this communication will be considered as the result of the international search and will be included as such in the international search report.
4. If the applicant pays additional fees, the international search report will contain both the information appearing in this communication and the results of the international search on other parts of the international application for which such fees will have been paid.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|---|-----------------------|
| X | US 4 144 027 A (HABIB EMILE E) 13 March 1979 (1979-03-13) column 4, line 13 - line 15; examples XI, I, IV, VIII; table VI column 20, line 21 - line 24 ----- | 1-7 |
| A | FR 2 544 322 A (STEVENS GENIN) 19 October 1984 (1984-10-19) claims 1, 4-6, 10, 12; examples 4, 7 ----- | 1-7 |
| A | DATABASE WPI Section Ch, Week 199747 Derwent Publications Ltd., London, GB; Class A25, AN 1997-510961 XP002289725 & RU 2 078 865 C1 (GOLLAND V A) 10 May 1997 (1997-05-10) abstract ----- | 1-7 |
| A | US 3 669 920 A (HAGGIS GEOFFREY ARTHUR ET AL) 13 June 1972 (1972-06-13) abstract column 8, line 66 - column 9, line 10 ----- | 1-7 |
| A | EP 1 273 935 A (MITSUBISHI GAS CHEMICAL CO) 8 January 2003 (2003-01-08) claims 1, 12; examples ----- | 1-7 |

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Patent Family Annex

Information on patent family members

International Application No

PCT/US2004/003231

| Patent document cited in search report | | Publication date | Patent family member(s) | Publication date |
|---|----|---------------------|----------------------------|---------------------|
| US 4144027 | A | 13-03-1979 | NONE | |
| FR 2544322 | A | 19-10-1984 | FR 2544322 A1 | 19-10-1984 |
| RU 2078865 | C1 | 10-05-1997 | NONE | |
| US 3669920 | A | 13-06-1972 | DE 2014899 A1 | 01-10-1970 |
| | | | DE 2014900 A1 | 10-12-1970 |
| | | | FR 2037269 A5 | 31-12-1970 |
| | | | FR 2035939 A5 | 24-12-1970 |
| | | | GB 1285051 A | 09-08-1972 |
| | | | GB 1285052 A | 09-08-1972 |
| | | | NL 7004463 A | 29-09-1970 |
| | | | NL 7004465 A | 29-09-1970 |
| EP 1273935 | A | 08-01-2003 | WO 0177740 A1 | 18-10-2001 |
| | | | DE 60104104 D1 | 05-08-2004 |
| | | | EP 1273935 A1 | 08-01-2003 |
| | | | WO 0177723 A1 | 18-10-2001 |
| | | | US 2002197484 A1 | 26-12-2002 |